

No. 691,983.

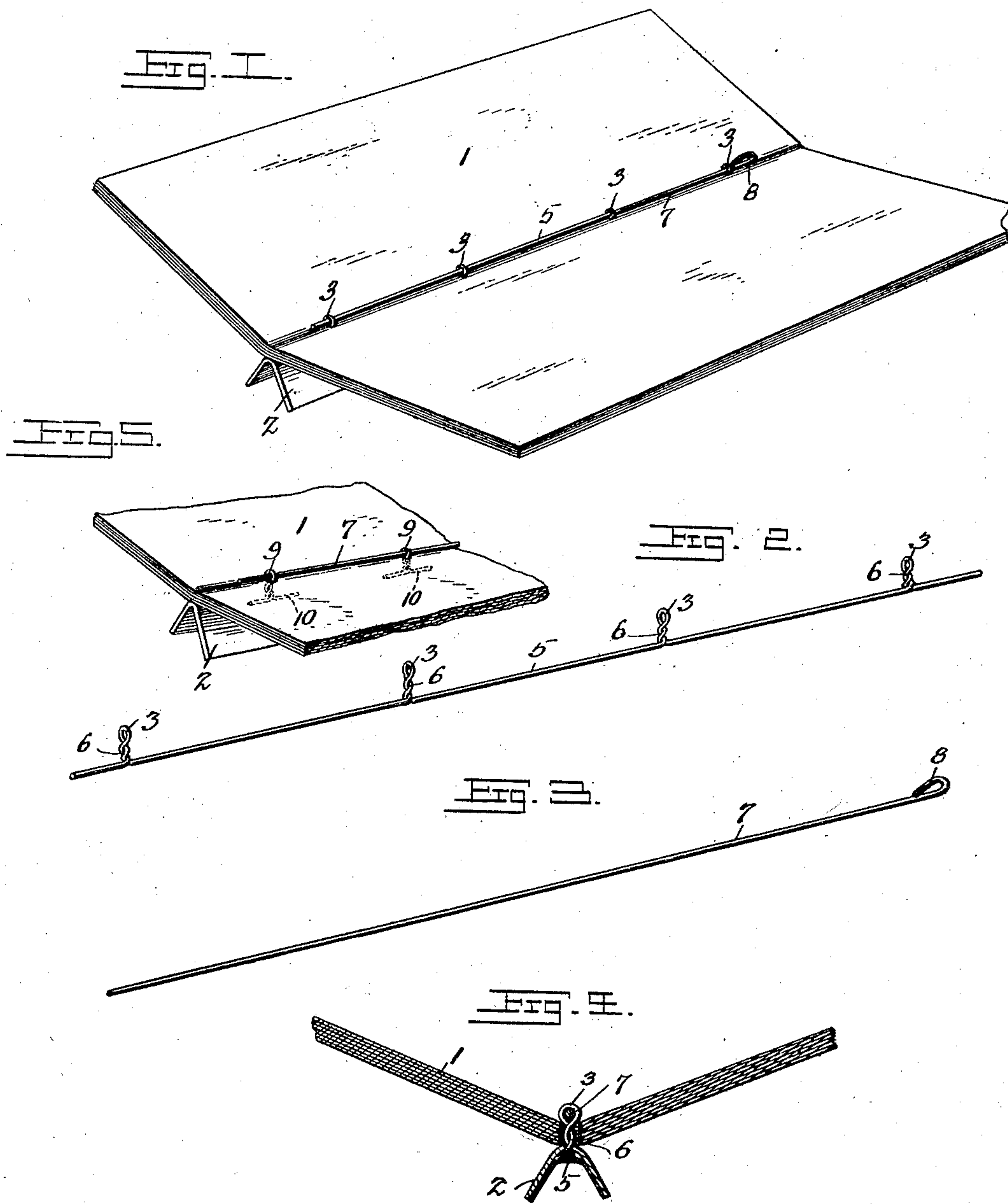
Patented Jan. 28, 1902.

J. F. SWANNEY

BOOKBINDING:

(Application filed May 20, 1901.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN FLETT SWANNEY, OF JERSEY CITY, NEW JERSEY.

BOOKBINDING.

SPECIFICATION forming part of Letters Patent No. 691,983, dated January 28, 1902.

Application filed May 20, 1901. Serial No. 61,177. (No model.)

To all whom it may concern:

Be it known that I, JOHN FLETT SWANNEY, a citizen of the United States, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented a new and useful Bookbinding, of which the following is a specification.

This invention relates to bookbinding; and the object of the same is to provide simple and effective means for permitting the sheets to be removed and replaced after the book is bound, the said means serving to reliably hold the sheets and the sections or signatures in connected relation when the parts thereof are assembled.

The improvement consists in removable and replaceable binding-wires inserted lengthwise in the upper portion of the folds of signatures or sections and adapted to engage wire eyes inserted through the said folds, the eyes being disposed in longitudinal alinement and fastened to the guard or binding strip for each signature or section, an obvious reversal being to have the eyes inserted through the folds from the upper portion of the same and the wires caused to engage said eyes from the back of the said folds.

In the drawings, Figure 1 is a perspective view of a section comprising a number of sheets and showing the improved securing means applied thereto. Fig. 2 is a detail perspective view of the securing-eyes, shown continuously arranged. Fig. 3 is a similar view of the wire for engaging said securing-eyes. Fig. 4 is a transverse vertical section on the line 4 4, Fig. 1. Fig. 5 is a perspective view of a portion of a section, showing a modification in the construction of the eyes.

Similar numerals of reference are employed to indicate corresponding parts in the several views.

The numeral 1 designates a section or signature composed of a series of leaves and centrally folded, as usual, and also provided with a guard or binding strip 2. The section shown may be a portion of a blank-book made up of a series of the same and to which the improvement is particularly applicable, and especially that character of book composed of a series of type-written leaves or pages which are added from time to time or which are withdrawn or detached from the original book

structure and placed in a type-writing machine and afterward reattached in the book. Separable leaves or sheets have been heretofore used in bound books, and the present improvement resides in the mode of securing the same, so that they can be detached and afterward reapplied in a simple and effective manner. The section 1 may be composed of as many sheets as desired, and, referring to Figs. 1, 3, and 4, a plurality of eyes 3 are secured to the binding strip or guard 2 and formed continuous with a wire strand 5 by looping and bending portions of the latter at right angles, the looped portions being twisted to provide necks 6 to rigidly support the said eyes. By forming the eyes as set forth they can be more readily applied, and the wire lengths between the several necks 6 provide stop means to prevent the eyes from being pulled through the sheets. The wire strand 5, with its necks and eyes, is held by the binding strip or guard and is passed upwardly through suitable slots or punctures formed in the fold or hinge portion of the section 1, the said punctures or slots being formed at intervals corresponding to the distance between the eyes. After the eyes 3 have been passed through the section, as shown by Figs. 1 and 4, a wire rod 7 is inserted therethrough and has one end 8 bent or formed with a stop-loop to prevent it from being pushed wholly through the adjacent eye, and thereby operate to retain the said rod 7 in proper assembled position. At any time desired the said rod may be removed and the sheets detached, and as the eyes always remain in fixed relation to the binding-strip as many sheets may be removed as desired and afterward reset and the rod 7 again be reset in holding position in relation to the eyes, as fully shown by Fig. 1.

In Fig. 5 a slight modification is shown and consists in forming the eyes 9, which are similarly positioned when applied, as those heretofore described, from independent wire lengths 10, the latter being held by the binding-strip or guard. The operation will be precisely like the construction heretofore described and the form of eye arrangement clearly shown by Fig. 2 is preferred.

The improved binding structure herein set forth will be found exceptionally useful and convenient, and it is proposed to use it in

connection with all classes of books where it is found applicable. It is of a strong and durable nature, and the use of wire, as set forth, to replace cord or breakable material will increase the wearing qualities of the book. Moreover, by employing the rod the latter can be easily threaded through the eyes.

Having thus described the invention, what is claimed as new is—

10 1. The combination with a section composed of a series of sheets centrally folded, of a binding-strip applied to the back portion of a fold of said sheets, a series of eyes carried by and projected through the central portion
15 of the said binding-strip and the folds of the sheets, and a wire rod removably inserted longitudinally through the said eyes, and located against the outer surface of the fold of the front sheet of the series.

20 2. The combination with a section composed of a series of sheets centrally folded, and the folds arranged in close relation to form a hinge, of a centrally-bent binding-strip arranged closely against the back of the

said hinge, a series of eyes carried by one of 25 said parts, and projected through the center of both of the same and exposed at one side of the other part, and a wire rod removably inserted longitudinally in said eyes.

3. The combination with a section composed of a series of sheets, centrally bent to provide a hinge fold, of a centrally-bent binding-strip, a wire strand having a continuous construction and provided with a series of 35 eyes in plane at right angles thereto and arranged at regular intervals apart, the said wire being placed against the fold or bent portion of the binding-strip and the eyes inserted through the latter, and the hinge fold of the sheets, and a wire rod removably inserted 40 longitudinally in said eyes.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN FLETT SWANNEY.

Witnesses:

RICHARD MORITZ LINKE,
WILLIAM SCHUNK.